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KAEL MATTHEWS

Government Reports Announcements & Index Routledge This title documents the burgeoning eco art movement from A to Z, presenting a

panorama of artistic responses to environmental concerns, from Ant Farms anti-consumer antics in the 1970s to Marina Zurkows 2007 animation that anticipates the havoc wreaked upon the planet by global warming.

An Ecosystem Case Study of a Shallow Urban Lake

Routledge

Sensors are everywhere. Small, flexible, economical, and computationally powerful, they operate ubiquitously in environments. They compile massive amounts of data, including information about air, water, and climate. Never before has such a volume of environmental data been so broadly collected or so widely available. Grappling with the consequences of wiring our world, Program Earth examines how sensor technologies are programming our environments. As Jennifer Gabrys points out, sensors do not merely record information about an environment. Rather, they generate new environments and environmental relations. At the same time, they give a voice to the entities they monitor: to animals, plants, people, and inanimate objects. This book looks at the ways in which sensors converge with environments to map ecological processes, to

track the migration of animals, to check pollutants, to facilitate citizen participation, and to program infrastructure. Through discussing particular instances where sensors are deployed for environmental study and citizen engagement across three areas of environmental sensing, from wild sensing to pollution sensing and urban sensing, Program Earth asks how sensor technologies specifically contribute to new environmental conditions. What are the implications for wiring up environments? How do sensor applications not only program environments, but also program the sorts of citizens and collectives we might become? Program Earth suggests that the sensor-based monitoring of Earth offers the prospect of making new environments not simply as an extension of the human but rather as new "technogeographies" that connect technology, nature, and people.

Proceedings of the 3rd International Conference on Architecture and Urban Planning, Cairo, Egypt

Univ of California Press

This volume of the IARC Monographs series provides an evaluation of the carcinogenicity of outdoor

air pollution. Outdoor air pollution is a complex mixture of pollutants originating from natural and anthropogenic sources, including transportation , power generation, industrial activity, biomass burning, and domestic heating and cooking. The mix of pollutants in outdoor air varies widely in space and time, reflecting the diversity of sources and the influence of atmospheric processes. Commonly measured air pollutants include particulate matter (PM2.5, PM10), nitrogen dioxide, and sulfur dioxide; the concentration of particulate matter is often used as an indicator of pollution levels. Millions of people worldwide are exposed to outdoor air pollution at levels that substantially exceed existing health-based guidelines. This evaluation is the culmination of a series that has examined individual pollutants that are contained in the mixture of outdoor air. Related previous evaluations have been published in IARC Monographs Volumes 92, 93, 95, 100C, 100E, 103, and 105. An IARC Monographs Working Group reviewed epidemiologic al studies, animal cancer bioassays, and

mechanistic data to assess the carcinogenic hazards of exposure to outdoor air pollution and particulate air pollution.

Meteorology Today for Scientists and Engineers

Springer Science & Business Media

The book is about climate resilience and environmental sustainability approaches, discussing knowledge at global level and the local challenges, presented by authors from various countries. Environmental sustainability is at stake and implications of climate change are clearly visible in most parts of the world. In the times of the prevailing global environmental crisis, this book discusses key issues of climate change and sustainable energy alternatives, waste management and development. It discusses climate change scenario using simulation models in various Asian countries, signatures of climate change in Antarctica, implications in the Indian Ocean and the Indian scenario of REDD+. A special focus has been given on building climate resilience in our agricultural ecosystems and sustainable agriculture. It discusses the prospects and challenges of renewable energy options including

biofuels and energy from wastewaters, explores the technical aspects of eco-friendly bioremediation of pollutants, sustainable solid waste management practices and challenges, carbon footprints of industry, and emphasizes on the significance of combining traditional knowledge with modern technology with novel approaches including involvement of social enterprises and corporate social responsibility to achieve the Sustainable Development Goals. This is an important document for researchers and policy makers working in multidisciplinary fields of sustainability sciences.

Eco Art in Pursuit of a Sustainable Planet

Routledge Architecture/Environment

How to design buildings that heat with the sun, cool with the wind, light with the sky, and move into the future using on-site renewable resources Developed for rapid use during schematic design, this book clarifies relationships between form and energy and gives designers tools for designing sustainably. It also: * Applies the latest passive energy and lighting design research * Organizes information by architectural elements at three scales: * building groups, individual buildings, and

building parts * Brings design strategies to life with examples and practical design tools * Features: * 109 analysis techniques and design strategies * More than 750 illustrations, sizing graphs, and tables * Both inch-pound and metric units

Proceedings of Plea 1998, Passive and Low Energy Architecture, 1998, Lisbon, Portugal, June 1998

Wiley

This book discusses the concepts and technologies associated with the mitigation of urban heat islands (UHIs) that are applicable in hot and humid regions. It presents several city case studies on how UHIs can be reduced in various areas to provide readers, researchers, and policymakers with insights into the concepts and technologies that should be considered when planning and constructing urban centres and buildings. The rapid development of urban areas in hot and humid regions has led to an increase in urban temperatures, a decrease in ventilation in buildings, and a transformation of the once green outdoor environment into areas full of solar-energy-absorbing concrete and asphalt. This situation has increased the discomfort of people living in these areas regardless of whether they

occupy concrete structures. This is because indoor and outdoor air quality have both suffered from urbanisation. The development of urban areas has also increased energy consumption so that the occupants of buildings can enjoy indoor thermal comfort and air quality that they need via air conditioning systems. This book offers solutions to the recent increase in the number of heat islands in hot and humid regions. Handbook of Atmospheric Science World Bank Publications The Whole Building Handbook is a compendium of all the issues and strategies that architects need to understand to design and construct sustainable buildings for a sustainable society. The authors move beyond the current definition of sustainability in architecture, which tends to focus on energy-efficiency, to include guidance for architecture that promotes social cohesion, personal health, renewable energy sources, water and waste recycling systems, permaculture, energy conservation - and crucially, buildings in relation to their place. The authors offer a holistic approach to sustainable architecture and

authoritative technical advice, on: * How to design and construct healthy buildings, through choosing suitable materials, healthy service systems, and designing a healthy and comfortable indoor climate, including solutions for avoiding problems with moisture, radon and noise as well as how to facilitate cleaning and maintenance. * How to design and construct buildings that use resources efficiently, where heating and cooling needs and electricity use is minimized and water-saving technologies and garbage recycling technologies are used. * How to 'close' organic waste, sewage, heat and energy cycles. For example, how to design a sewage system that recycles nutrients. * Includes a section on adaptation of buildings to local conditions, looking at how a site must be studied with respect to nature, climate and community structure as well as human activities. The result is a comprehensive, thoroughly illustrated and carefully structured textbook and reference.

Smart and Sustainable Planning for Cities and Regions Mdpi AG

This book provides insights and a capacity to understand the climate change

phenomenon, its impact on water resources, and possible remedial measures. The impact of climate change on water resources is a global issue and cause for concern. Water resources in many countries are extremely stressed, and climate change along with burgeoning populations, the rise in living standards, and increasing demand on resources are factors which serve to exacerbate this stress. The chapters provide information on tools that will be useful to mitigate the adverse consequences of natural disasters. Fundamental to addressing these issues is hydrological modelling which is discussed in this book and ways to combat climate change as an important aspect of water resource management.

Indicators and Impacts: Report for the 2012 Pacific Islands Regional Climate Assessment

John Wiley & Sons

This book presents cutting-edge work on innovative planning methodologies, tools and experiences aimed at supporting the transition of our cities and regions towards a more smart and sustainable dimension. This book comprises a selection of

the best papers presented at the international conference “Smart and Sustainable Planning for Cities and Regions 2015”, held in November 2015 in Bolzano, Italy. Contributions from different research fields within urban and regional planning from the scientific as well as the professional community are presented: energy planning for cities and regions, how to couple the energy-climate goals with the development or renovation of the built environment and how to tackle the vulnerability to climate change; smart and sustainable technologies, big data, integrated infrastructures and mobility management, from holistic geospatial tools to innovative apps and Internet of Things; benefits, costs and opportunities of urban transition toward a more smart and sustainable dimension, accounting and assessment of values and trade-offs within the decision making processes; governance for smart and sustainable growth, fostering place-based policy-making, active and effective stakeholders’ participation, co-production and public-private partnerships; cooperation and demonstration projects: their role in

fostering the adoption of new approaches and technologies, towards the development of win-win solutions.

Selected References on Environmental Quality as it Relates to Health

Springer

The 15th Passive and Low Energy Architecture (PLEA) conference considered the issues of sustainability and environmental friendliness at the city scale. Some 150 papers address the many and varied questions faced by architects and planners in reducing the impact on the environment of cities and their buildings.

Climate Change Impacts on Water Resources

Springer Science & Business Media

For the sixth consecutive year, the AGILE conference promoted the publication a book collecting high-level scientific contributions from unpublished fundamental scientific research. The papers published in the AGILE 2012 LNG&C volume contribute substantially to Geographical Information Science developments and to the success of the 15th AGILE conference (Avignon, France, 24-27April, 2012) under the title ‘Bridging the Geographic Information Sciences’. This

year's conference emphasizes that geoinformation science, geomatics and spatial analysis are fields in which different disciplines, epistemologies and scientific cultures meet. Indeed, the scientific articles published in this volume cover a wide diversity of GIScience related themes, including: Spatio-temporal Data Modelling and Visualisation; Spatial Data Infrastructures; Geo Web Services and Geo Semantic Web; Modelling and Management of Uncertainty; Spatio-temporal Data Quality and Metadata; Mobility of Persons, Objects and Systems, Transports and Flows; Spatial Analysis, Geostatistics, and Geo Information Retrieval; Modelling and Spatial Analysis of Urban Dynamics, Urban GIS; GIS and Spatial Analysis for Global Change Modelling, Impact on Space; and Geographic Information Science: links with other disciplines and people. Principles and Practice of Sustainable Architectural Design IWA Publishing Since their creation eight years ago, the EERA Joint Programmes and their participating institutions have accumulated important knowledge on specific topics of the programmes

they carried out. This includes Smart Cities and Positive Energy Districts, which are not only crucial topics tackled by EERA Joint Programme in the Smart Cities Workplan, but also in H2020 as well as Horizon Europe or national calls, focusing on innovative solutions based on interdisciplinary approaches, which are needed to face the highly complex challenges in coming years, from sustainable urban development to emergencies in cities due to the COVID-19 pandemic. The foreword of EERA JP in SC Special Issue 12018 highlighted the aim of the Special Issues series, which was, and still is, to support the growth of research networks in the EC framework. According to this, our ambition is to publish the most promising research and innovation projects which EERA JPonSC partners, and others, set up in the framework of H2020 Programme, to drive the attention to the fact that EERA JP on SC is one of the strong voices in research in Europe, capable of highlighting and integrating different solutions and points of view.

Principles and Practice

Routledge

This volume offers a comprehensive review of the chemical,

biological and hydromorphological quality of the Danube. The first part examines the chemical pollution of surface waters, focusing on organic compounds (with special emphasis given to EU WFD priority substances and Danube River Basin specific pollutants), heavy metals and nutrients. Attention is also given to pollution of groundwater and drinking water resources by hazardous substances and to radioactivity in the Danube. The second part highlights the biology and hydromorphology of the Danube. It focuses on benthic macroinvertebrates, phytobenthos, macrophytes, fish, phytoplankton as well as microbiology, with chapters dedicated to gaps and uncertainties in the ecological status assessment and to invasive alien species. Further chapters dealing with the hydromorphology, sediment management and isotope hydrology complete the overall picture of the status of the Danube.

Global Lessons and Local Challenges

Springer

Sewage Treatment Plants: Economic Evaluation of Innovative Technologies for Energy Efficiency aims to show how cost saving can be

achieved in sewage treatment plants through implementation of novel, energy efficient technologies or modification of the conventional, energy demanding treatment facilities towards the concept of energy streamlining. The book brings together knowledge from Engineering, Economics, Utility Management and Practice and helps to provide a better understanding of the real economic value with methodologies and practices about innovative energy technologies and policies in sewage treatment plants.

To Life! NCA Regional Input Reports Microclimate for Cultural Heritage: Measurement, Risk Assessment, Conservation, Restoration, and Maintenance of Indoor and Outdoor Monuments, Third Edition, presents the latest on microclimates, environmental issues and the conservation of cultural heritage. It is a useful treatise on microphysics, acting as a practical handbook for conservators and specialists in physics, chemistry, architecture, engineering, geology and biology who focus on environmental issues and the conservation of works of art. It fills a gap between the application of

atmospheric sciences, like the thermodynamic processes of clouds and dynamics of planetary boundary layer, and their application to a monument surface or a room within a museum. Sections covers applied theory, environmental issues and conservation, practical utilization, along with suggestions, examples, common issues and errors. Incorporates research on the effects of climate change from Climate for Culture, the EU funded, five-year project focusing on climate change's impact on cultural heritage preservation Covers green lighting technology, like LED and OLED, it's impacts on indoor microclimates, preservation and color rendering Includes a case study on sea level issues and cultural heritage in Venice

The Whole Building Handbook

Springer Nature

This extensively revised and expanded edition broadens the reach and depth of the permaculture approach for urban and suburban gardeners. The text's message is that working with nature, not against it, results in more beautiful, abundant, and forgiving gardens.

Applied Climatology

Chelsea Green Publishing Here we report on a 25-year long-term sequence of measures to return a deteriorated recreational urban lake, Alte Donau in Vienna to acceptable water quality. Metropolitan waters require focused ecosystem management plans and intensive in-lake efforts. We explored physico-chemical conditions, food web from viruses to fish and water birds, the sediments, the littoral zone and the catchment, management and urban planning, and global warming. Several restoration techniques were tested and critically evaluated. The final management plan was based on bi-stable theory. During the recovery phase, numerous surplus adjustments had to be implemented to secure sustainable achievement.

Hydraulics, Water Resources and Coastal Engineering Routledge The majority of the world's population live in environments with artificially weakened wind as buildings in urban areas form wind-breaks and reduce wind speeds. Anthropogenic heat is also generated and during the summer dense urban areas suffer from the urban heat island effect, a known urban climate problem. This

book discusses how to evaluate the urban wind environment, including ventilation performance and thermal comfort. This book is organized in two parts; Wind Environment and the Urban Environment and Criteria for Assessing Breeze Environments. It includes chapters on sea breeze in urban areas; thermal adaptation and the effect of wind on thermal comfort; health risk of exposures; pollutant transport in dense urban areas; legal regulations for urban ventilation and new criteria for assessing the local wind environment. Keywords: urban wind environments, urban heat island, urban climate, land use change, thermal comfort, risk assessment, urban air pollution, urban ventilation *Allogeneic Stem Cell Transplantation* Springer Nature Prepared for the 2013 National Climate Assessment and a landmark study in terms of its breadth and depth of coverage, Climate Change and the Pacific Islands was developed by the Pacific Islands Regional Climate Assessment, a collaborative effort engaging federal, state, and local government agencies, non-government organizations, academician,

businesses, and community groups to inform and prioritize their activities in the face of a changing climate. The book assesses the state of knowledge about climate change indicators, impacts, and adaptive capacity of the Hawaiian archipelago and the US-Affiliated Pacific Islands. The book provides the basis for understanding the key observations and impacts from climate change in the region, including the rise in surface air and sea-surface temperatures, along with sea levels, and the changes in ocean chemistry, rainfall amount and distribution, weather extremes, and widespread ecosystem changes. Rich in science and case studies, it examines the latest climate change impacts, scenarios, vulnerabilities, and adaptive capacity and offers decision makers and stakeholders a substantial basis from which to make informed choices that will affect the well-being of the region's inhabitants in the decades to come.

Second Assessment Report of the Urban Climate Change Research Network

DIANE Publishing

This proceedings addresses the challenges of urbanization that gravely affect the world's ecosystems. To become

efficiently sustainable and regenerative, buildings and cities need to adopt smart solutions. This book discusses innovations of the built environment while depicting how such practices can transform future buildings and urban areas into places of higher value and quality. The book aims to examine the interrelationship between people, nature and technology, which is essential in pursuing smart environments that optimize human wellbeing, motivation and vitality, as well as promoting cohesive and inclusive societies: Urban Sociology - Community Involvement - Place-making and Cultural Continuity – Environmental Psychology - Smart living - Just City. The book presents exemplary practical experiences that reflect smart strategies, technologies and innovations, by established and emerging professionals, provides a forum of real-life discourse. The primary audience for the work will be from the fields of architecture, urban planning and built-environment systems, including multi-disciplinary academics as well as professionals.

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